



J&D Manufacturing



LEADERS IN MOVING THE WORLD'S AIR

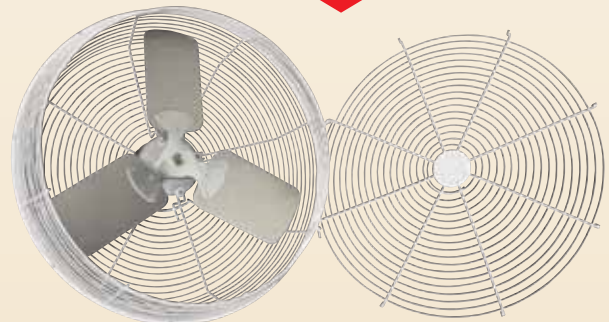
Green Breeze HAF Fan

Greenhouses require a specialized HAF fan, and J&D Manufacturing's Green Breeze is simply the best. In the winter, use the fan blowing above the plants to move air throughout the greenhouse to create a uniform temperature and reduce heating costs. Adjust the air pattern and reduce the fan speed towards the plants that you may want to harden before shipping to market. Low velocity air can be used to stimulate hair follicle to improve plant health. The Green Breeze HAF Fan is the most versatile, energy efficient, best valued HAF fan on the market today.



Features

- No belts or bearings to maintain
- Available in 12", 20" and 24"
- OSHA approved guard
- Fan and guards ship completely assembled
- **Patented Open Front Guard** cuts maintenance time and costs
- Mounting bracket mounts directly to the yoke of motor to eliminate any vibration for smooth fan operation
- Provides constant temperature and helps to eliminate hot and cold spots throughout the greenhouse
- Corrosion resistant white powder coated fan guard
- The tapered side guard creates a tight air pattern that throws air much farther and allows more air flow for optimum air circulation
- Variable speed motors for year round air circulation (requires separate variable speed control to adjust fan speed)
- Attached cord with 3-prong plug
- Totally enclosed, maintenance free, direct drive high efficiency motors have completely sealed ball bearings, UL and CUL certification (File# E219338/E315335), and are covered by a **Full Two Year Warranty**
- All of our Green Breeze HAF fans can be used with our misting/fogging product line to reduce temperature and/or increase humidity for plants



EXCLUSIVE Open Front Guard

The Green Breeze is the only fan on the market with the exclusive open front feature. The unique design helps cut cleaning time and maintenance costs so you are back to full energy efficient, high-output operation in no time.

U.S. patent No. 5,348,447



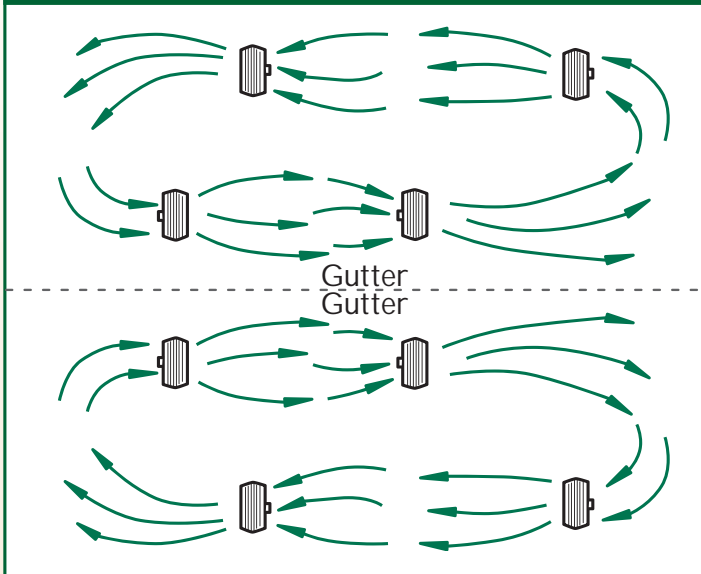
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Green Breeze HAF Fan

Structure air-flow pattern for gutter connect greenhouse



Recommended spacing for optimum performance:
VBG12 - 30' or less
VBG20 - 40' or less
VBG24 - 50' or less

Complete Coverage

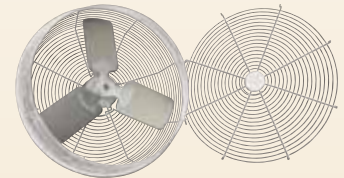
J&D Manufacturing's design allows for more air flow and a consistent air pattern. This maximizes heat distribution and humidity control by mixing the air, from ceiling to floor—under, over and around your plants.

The Green Breeze HAF fan has precise guard spacing to greatly reduce air restriction when compared to conventional basket fans. Dirt will not bridge the gaps on the wire grill, which leads to reduced performance and premature motor failure.



Exclusive Open Front Guard

U.S. Patent No. 5,348,447



Green Breeze HAF Fans

Part#	Size	HP	Volt~	Tested		Phs	Spd^	FPM*	Thrust		kW	RPM	CCFM				
				Amps	Hz				(lbf)	Ratio**			Per	Watt	Blade	Cord	Color
VBG12	12"	1/10	115	1.12/0.56	60	1	S/Var	530	.76	7.0	.109	1,695	1,460	12.7	3-Alum	10'	White
VBG20	20"	1/3	115	3.52/1.76	60	1	S/Var	1,140	3.69	11.0	.336	1,706	5,060	15.1	3-Alum	6'	White
VBG24	24"	1/2	115	4.16/2.08	60/50	1	S/Var	1,200	5.62	12.3	.459	1,716	7,490	16.3	3-Alum	10'	White

All units are DD (Direct Drive) and include the corresponding hot dip galvanized standard flag mount bracket with mounting hardware.

~ These S/Var units come pre-wired for 115 Volts (electrician may rewire for 230 Volts)

^ Variable speed fans require separate variable speed control to adjust fan speed.

* FPM (Feet Per Minute) - Velocity measured center line at a distance 5 times the prop diameter.

** Thrust Efficiency Ratio is calculated by dividing the Thrust (lbf) by the kW.

Bold red text is data certified by BESS Labs using AMCA Standard 230-07.



Optional Mounting Brackets

Part#	Suggested Fan Size	Description	Finish
VRSBR736-U	12"-16"	Standard Bolt On Flag Mount Ceiling Bracket w/U-Bolts and Nuts	Hot Dip Galvanized
VRSBR8-U	20"	Standard Bolt On Flag Mount Ceiling Bracket w/U-Bolts and Nuts	Hot Dip Galvanized
VRSBR5-U	24"	Standard Bolt On Flag Mount Ceiling Bracket w/U-Bolts and Nuts	Hot Dip Galvanized
POWTPB	12"-24"	Tent Pole/Greenhouse/Ceiling Mount Bracket w/U-Bolt and Nuts	Powder Coat White

